

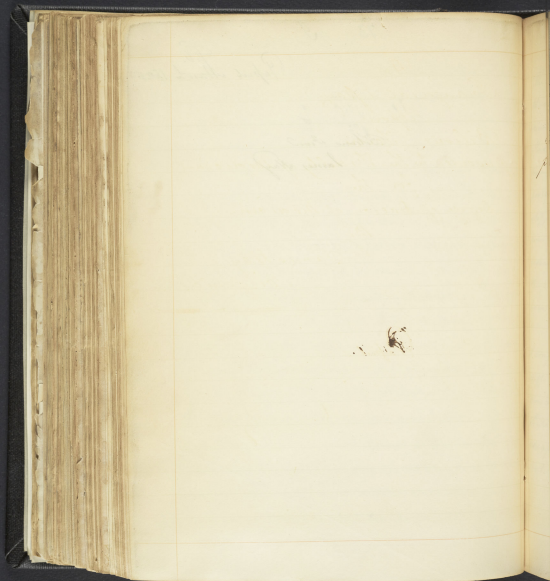
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Feb.
Papal March 1825

No.
12

Belmont Road
James Hay



A.

An
Inaugural Essay
Upon
Bilious Fever
presented to the Faculty of Medicine
for the
Degree of Doctor of Medicine
By
James Kay of
Virginia

Caput.

James Kay of Virginia

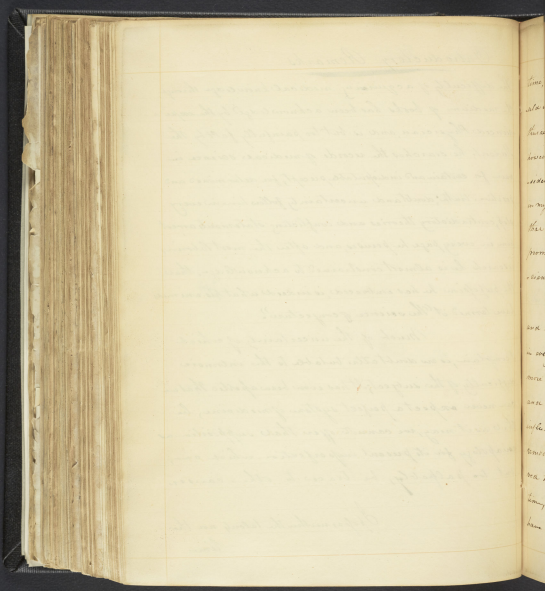
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Introductory Remarks

The difficulty of acquiring medical knowledge through the medium of books has been acknowledged by the experienced Physician, and is but too painfully felt by the Student; he searches the records of medical science in vain for certain and indisputable precept, for determined and positive truth; doubt and uncertainty follows him in every step, contradictory theories and conflicting statements arrest him in every page he peruses, and after the most laborious research he is almost constrained to acknowledge, that the profession he has embraced, is indeed what his enemies have termed it "the science of conjecture".

Much of the uncertainty of which I complain, is no doubt attributable to the intrinsic difficulty of the subject; it has even been asserted that we can never expect a perfect system of medicine; but that as it may, we cannot offer that supposition as an apology for its present imperfection which can, but too palpably, be traced to other causes.

I hope, within the talents nor the
time



time, to take such an historical view of the subject, as would also enable me to point out what those causes are, that have thus retarded the progress of medical science. In reference, however, to the particular subject which I propose to consider in the ensuing essay, I will mention some which, in my estimation, have had considerable influence to that end. — It strikes me that, among the most prominent, may be placed, an undue regard to ancient authority.

During the early ages, superstitions and credulity were the prolific parents of many errors in every department of human knowledge, but in none more so than in medicine; 'tis then we hear of amulets and charms, the conjunction of planets, and of sidereal influences; 'tis then that deluded patients gulped down remedies almost too disgusting to be named, and believed them specifics, and when, in reference to that time, Louis Bacon declared "that witches, and impostors have always held a competition with Physicians", he

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only perpetuates a fact, that stands in humiliating opposition to the proud boast that our art is of divine origin.

If the remark of the satirist was authorized by fact (as there can be little doubt) is it to the writings of that age, that we are yet to look for medical information? — my allusion is not only to the Greek and Roman writers, but to those bloated compilers and hypotheticals epagists who sprung up after the revival of literature in Europe, & whose theories ought, on this, to have descended to the "bones of all the Capulets" — or if remembered, remembered only to be ridiculed. It is, no doubt true, that the Greek writers described diseases that occurred at their time, with the greatest accuracy, and that in fact even to this day, their histories of many of the maladies that afflict mankind, are yet correct, but have not these histories (as far as they are perfect) been introduced in modern medical literature? and if so, why should we seek for truth in a well when it is brought to our hand — why should the student pore over huge volumes of aridities, and

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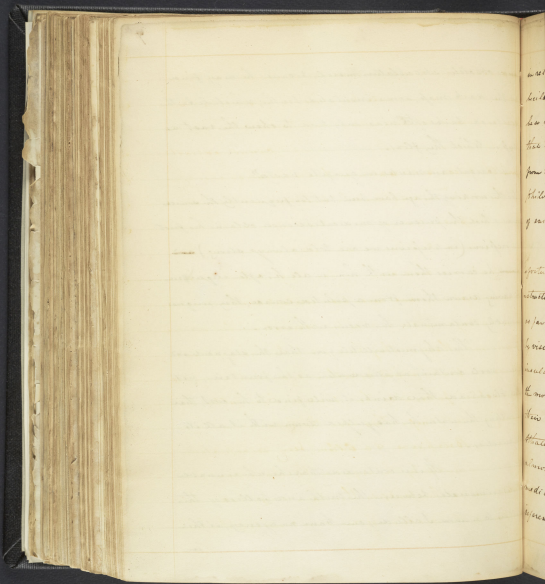
and obsolete speculations merely, because he may find in the dark mass, some insulated truths, which like the scattered barks of *Uneas*, only tend to show the vast abyss in which they float.

"Apparent savi manles in gumpeto vasto"

Yet the works of this age have been but too frequently the source from which the pursuer of medical science obtains his first impressions (impressions we are told always strong) and which he carries them with him, in all his after inquiries. Having drawn them from a polluted source, they unquestionably contaminate his views with error.

The chymist will tell you that the stagnant and green pool contains as pure water as the fountain, yet the bloodhead that drinks it, will find to his cost, that in getting the water, he has gulped down with it, all its impurities.

If it is contended that he who is unable to discriminate between the truths and follies of the writers to whom I allude, can have no agency, either



in retarding, or advancing medical science, that the inability of his mind, will keep him in obscurity, it may be so as a particular proposition; but I feel well assured that as the chymist, with all his art, cannot extract, from the green pool, water without taint, so even the philosopher's ^{mind} will seldom be free from the prejudices of early association.

Another cause that has proved most unfortunate for medicine is, that those who have constructed systems, "have never been contented in advancing as far as they were conducted by observation" but seduced by visionary theories, they have, upon the basis of a few insulated facts, piled hypotheses, upon hypotheses, till the monstrous fabrics of their fancies, have fallen from their own rottenness. Thus have the great names of a Whate, a Boerhaave & a Cullen, been perpetuated almost as much by the injuries they have done to medicine, as the benefits they have conferred. In reference to the practice of my own country I think

I.

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I am justified in saying, that the footsteps of the Physician, that would regulate his practice in fever, by either of the systems, to which I have alluded, would be traced by misery and death. (A)

To these prominent causes, I may add another which has been equally subversive of true reasoning in medicine; I mean — the application of the laws of other sciences to the explanation of the phenomena of life.

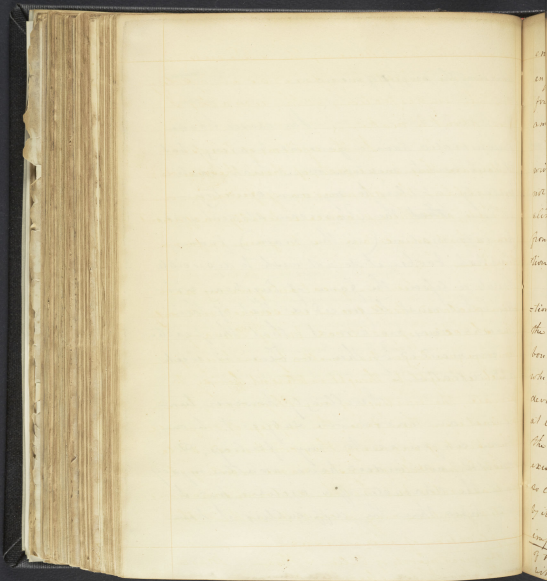
Physiology, however, is no longer a science of speculation, and the visionary fabrics of those, so physiologists, those "frost works of fancy", filled with words of no meaning, are fast fading, before the truths of modern experimentalists — and it requires no great stretch of the imagination to anticipate the time (and that not far distant) when physiology shall be supported by principles, as undeviating as those which elucidate the physical sciences; — it must however be conceded, that the absurdities, which have disgraced Physiology, have had no inconsiderable influence in retarding

A. If the severity of the above remark requires an apology, I beg leave to state, that I refer solely to those theories of the brain

retarding the progress of medicine.

The causes I have enumerated have a general bearing, but I have none to mention one which particularly applies to my own country — it is — ~~that~~ the American student seeks his information (in the main) from English books — I do not wish to depreciate talents or lessen the fame of European writers but it must be conceded that if their general views are correct — that the practices recommended by them in Fever is weak and defective —

I willingly however turn from an invidious subject to one more congenial to my feelings, & should not indeed have exalted myself into the character of a critic — had I not hoped that the difficulties I have



enumerated as attending the students
engineers might be offered as an apology
for the imperfections of the remarks I
am about to make.

If the systems of European
writers are thus imperfect, if their theories do
not explain the phenomena of fevers in our
climate, and their practice is totally inefficient
from what source are we to gain informa-
tion? —

When our great and giving na-
tion declared itself free — we severed not only
the shackles of political but of literary
bondage; no longer trammelled by authority from
which it might be thought intolerant heresies to
deviate, the writings of our Physicians, bore
at least upon their face, the impress of originality,
the spirit of enquiry thus commenced still
exists & happily for us a name is not yet
so consecrated but that the doctrines sanctioned
by its signature may be combated without the
implication of irreverence —

“The great merits of Cullen & those of Marsac,
with whom I have also studied him.”

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"*Marcus dixit? Ita est*" — is not yet the motto of American Physicians. Hence I may safely say that the Philosophy of medicine is cultivated in this country with more liberal views than in Europe, and I am well convinced, in no part of the country, with more grace and mobility than by the professors of my own "Alma Mater."

To another source the American students may look without disappointment for knowledge; I mean to the writings of the British army and navy surgeons, who, during a long and disastrous war, were led by their duty, to witness the awful forms which fever assumes, under a tropical sun. They soon found it necessary to forget, in their practice, the prejudices which their education, in the humors, opacities, and other American schools had engendered, & resort to means, which the real disciples of "Activity and pureness" would have shuddered to employ. — They found it from sad experience, to be, a trifling war to "combat a giant with a straw"; and such is the estimation.

With

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with which I regard their testimony, that I am
 free to acknowledge, that the first clear view that I
 had upon the subject of fever, was derived from the writing
 of one of them ^(B) after having spent many anxious hours in
 perusing the pages of a Cullen, a Boerhaave, & a Wilson ^(C).

But after all, the difficulties are only deferred,
 convinced, however, of the vast importance of some posi-
 tive principles, as a guide to practice in fever, — I have
 attempted, to point out the causes, phenomena, and treat-
 ment of that shape of fever, so frequently the au-
 tumnal scourge of my native state, — and which it
 is most probable will hereafter cost me many moments
 of anxious solicitude, in prosecuting the arduous duties
 of my profession.

May I be permitted to offer to
 my instructors, the cause, mentioned in the preceding
 remarks, as an apology for the errors of those that
 are to follow; remarks — which unaccustomed and
 an the composition — I should never have attempted
 but.

B Johnson a tropical climate.

C I regret exceedingly not being able to procure Professor Chapman's
 work on fevers.

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but in compliance with an institute of the University
 — like Shakspeare's remarkable knight I find
 myself "compelled to give my reasons", but unfortunately
 by the parallel holds no farther; like him I have not
 reasons "as plenty as blackberries", but such as I have
 got, I trust will be received, with thankfulness and
 charity - which they will stand so much in need of.

and of the sort is much wanted - I to my own & the book seller
 takes them to Dr. Chapman:

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Bilious Remittent Fever

This form of fever is endemical to warm climates and its usual type — to use the language of the schools, is a Synochus; but as I am inclined to believe, that the typhoid depression which but too frequently occurs is rather attributable to extrinsic causes, than to the absolute nature of the fever; and as names have heretofore had much influence in practice, I am induced to object to this fever being considered a synochus, for the practitioners will have derived from the same source — that gave him the name, the caution, "that we must always remember, in moderating reaction in the first stage of synochus that we do not carry our depleting method too far, for fear of the debility that necessarily occurs in the second stage;" now as I believe that in most instances this debility is the consequence of un subdued reaction, & that to prevent it, we have only to moderate excitement in the first stage, I would rather call our Bilious fever a Synocha

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Synocha - the name thus being an index, in a great measure to the practice; - for I most devoutly believe that the mortality attendant upon this shape of fever is to be traced to a want of that big bear debility the best and handling of European systems, where we shall find, plans for the treatment of fever, in our climate laid down with as much precision as if the writer had themselves, panted under the influence of a tropical sun - & what is most extraordinary, the very indications they draw, are the deductions of theories framed upon the phenomena of fevers as they exhibit themselves - in their cold & humid climate, upon the edges of a Lancashire fen or a Dutch canal.

CAUSES

For the sake of perspicuity, I shall divide the remote causes of bilious fever into predisponent and exciting, although the predisponent frequently becomes the exciting cause & vice versa - among the most prominent
predisposing

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pre-disposing causes, are. Solar influence, a heat-cold
 Intemperance, the depressing passions, and all those
 agents which tend to reduce the system below the
 standard of health. The great exciting cause is
 Marsh Miasma. — The proximate cause of fever has
 been a subject of enquiry from the earliest times. If
 by the proximate cause, is meant those minute organic
 alterations, which produce the phenomena of fever,
 we may safely say it has been a fruitless enquiry,
 — but if it has reference to derangement of function
 or structure, which are apparent by external symptom.
 The experience of ages has enabled us to draw pretty
 accurate pathological conclusions.

Like the fab'd hydra of antiquity,
 fever rears its many monstrous heads; how incapable
 then any general proximate ^{cause} must be to elucidate the
 phenomena it displays in its diversified forms, when
 we consider, when we reflect — that the systems of
 a Stahl, a Hoffman, a Boerhaave, a Cullen, a Brown

The first of these is the fact that the
 world is not a uniform whole, but is
 divided into many different parts, each
 of which has its own peculiar character
 and its own history. The second is the
 fact that the world is not a static
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 fact that the world is not a uniform
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 parts, each of which has its own peculiar
 character and its own history.

a Darwin & Rush & a Wilson, have also been tried and found wanting. They have, indeed, attempted to do what in the nature of things was impossible to be done — We are told of Boerhaave that he collected from authors all the symptoms, they enumerated, of fever, and rejecting such as were not present in all fevers — he was astonished to find that they resolved themselves into the three following only viz Shivering, frequent pulse, and heat. now it is well established that even these do not occur in all fevers, & in fact, that there exist not one symptom of fever universally present^(x) If then there exist no pathognomonic signs of fever — how can a general proximate cause be devised?

There does exist however certain indisputable truths — which have been established by the experiments of modern Physiologists, which throw much light upon the operations of the animal economy, and by which we are not only able to explain the phenomena of the

Hume

x I thought, 1st definition.

human machine during health, — but also the effects of morbid agents during disease. These truths I shall enlist to support my views, and by them endeavour to point out ^{the} effects of the predisponent and exciting causes & thus pave the way to clear indication of cure.

Among the predisponent causes of bilious remittent fever — I have placed solar influence at the head of the list. I may indeed say — that all the others are only accessories without it would be unavailing: while it alone, may both predispose & excite.

The effects of long continued heat is to produce debility in all the animal and vital functions, but it exerts its most baneful influence upon the biliary excretions. — The law of sympathetic action a consent of parts, by which the Physiologist explains many of nature's phenomena, must at the present day be conceded, as an undeniable principle, though we cannot say what this sympathy is; we only know it

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it from its effects, and can we more explain its nature than the Chemist can affinity - the Geometician, gravity or the mechanic elasticity, it is a law of nature, our framing, and like many of her works far beyond our ken at scrutiny — It has been reserved for Dr. J. Johnson* the elegant author of a work on tropical climates, to make a particular application of this law in solving the nature of the biliary derangements of warm climates, he shows the existence of a strong sympathy between the skin & liver - which he has called "Cutaneous Hepatic sympathy" and which in my estimation very satisfactorily accounts, for many of the Hepatic affections incident to long application of heat. Another sympathy not less important exists between the skin and alimentary canal.

The primary effect of heat is a stimulus to all the secreting organs - its direct impression is upon the skin, and sympathetically upon the glandular system & chylipoietic viscera; now the effect of stimulus

* The edition of Dr. Johnson's book that I have, is the one edited by Proffers Chapman & Phelan. I entered upon the perusal of the work with the conviction that it must supply uncommon merit to merit the sanction of their names, and can only say that at the whole course of my medical studies, I have never read a book which has given me such unsolicited satisfaction.

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in secret, it to produce debility, and it will be found that after a long application of heat, the secretory organs, reduced to a state of indirect debility, either have their functions paralyzed or yield vitiated fluids, in the place of their healthy and natural secretions. and none are so liable to this vitiation as the bile.* The stomach too, the great centre of both healthy and morbid assimilations, will give under the debilitating agency of heat and anorexia, sour eructations, flatulence, and all the evidences of depraved gastric secretion, will in consequence its derangement, the bowels also cease the faithful discharge of their healthy functions, and constipation or dysenteric looseness ensue. In this state of body, into most persons find themselves (even though of temperate habits) during the autumnal months in Virginia, and nothing but an exposure to the exciting cause is wanting, to produce Bilious Fever.

It would be worse than useless to use any arguments to prove the debilitating effects of intemperance

Sept.

* See Lecture on Mephitic climates.

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upon the system generally, for it is apparent to the most superficial observer; it may, however, be proper to remark, what I believe is well established by experience—that while the frame universally suffers from debility, the liver is the organ, which is peculiarly affected in drunkards; if so—it will at once be perceived how fatal an adjunct to the disorganizing influence of great atmospheric heat, must be intemperance, in predisposing to the Bilious epidemic. I am aware that a specious apology for "free libation," has been urged upon the score of experience—they will tell you that they daily witness many persons, arriving to great old age after a life of much indulgence; and I must acknowledge that it has come within the scope of my own observation, to know three men, who lived and died upon the banks of the Chickahomony swamp one of the most unhealthy parts of Virginia, who lengthened out their pilgrim age to the uncommon term of nearly a century, the oldest of whom for the last forty years of his life, never

Draper

I have been thinking much lately of the many things
 which I have seen and heard of in the world, and how
 much of it is but a vain show, and how much of it is
 but a passing fancy, and how much of it is but a
 fleeting moment, and how much of it is but a
 dream, and how much of it is but a shadow, and
 how much of it is but a vapor, and how much of it
 is but a smoke, and how much of it is but a
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pressed his couch at night "till in the mantling bowl
 all cases were drowned". The next oldest was emphati-
 cally a "bon vivant" and the last never forgot, during
 the course of his long life the old virginian habit of
 his antipogmatic. But these examples no more prove
 the innocency of intemperate habits, than the fact
 of the Spanish guzler of Paris licking hot iron proves
 that fire might be applied to the animal fibre
 with impunity. The sensibility of man differs in degree
 & the stimulus under which one would sink would but
 exhilarate another. if Physicians had used this
 fact to point out the proper use of ardent spirits, they
 had done more good than by the unequal fire disap-
 probation they have generally expressed of its use at all.

Do! Rush, always pleasing in his writings, not un-
 frequently permits his imagination to lead him into
 the wildest speculations; in speaking of the effects of
 temperance on the mind, he relates an anecdote of
 Carneades, a noted Philosopher of Greece, who not only
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abstained from food and drink, but absolutely increased the effects of inanition by taking a purge of hellebore before he disputed with Chrysippus, a distinguished philosopher of the sect of stoics. He speculates upon this and other facts until he is led to the conclusion that the sobriety usually displayed by the Scotch, is attributable to their barley broth. I question whether there exists in the world a set of more ingenious gluttons, than compose the literary galaxy at this time in the capital of Scotland. — If we are to credit the accounts of travellers, ^(A) the "L'art de gourmand", is there a science, and while we might suppose, the philosopher engaged in his deep and recondite pursuits — the poet with — "eye with pine for eyes rolling giving to airy nothing a local habitation and a name" or the pious divine pondering over huge tomes of polemical divinity to draw from the well, drink for the thirsty souls of his needy flock, they are in fact, seated round a well furnished table at "Oman's, the prince of publicans".

Chrysippus

See Peter's letters to his kind folk.

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disputing the knotty point, whether punch is better made
 of lemon or lime juice - the truth is (as I before ob-
 served) it depends much upon the original tempe-
 rament of the man, for if we are told that Newton
 lived upon vegetables, & drank water when he composed
 his book on optics, we all know that the great William
 Pitt took good care that his body should not suffer
 while his gigantic mind wielded the destinies of a
 world. but let it not be supposed that I am an
 apologist for intemperance "that bane of morals and
 of health" - my object is merely to propose the ques-
 tion - how far the use of distilled spirits, is con-
 sistent with health & temperance; in answer to
 which I say - if we find its use attended by tonic &
restorative effects - it ~~is~~ is not only innocent but ad-
 vantageous; if to the contrary, momentary excite-
 ment is followed by debility - you may conclude, as
 then that too much has been taken or that it is altoge-
 ther improper & if in the smallest quantity it -
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debilitating effects - look upon it as Nature's caveat that you drink not at all. In conclusion - Interference next to solar heat is the most powerful predisponent cause of Billous fever.

The tendency of transition, poverty - the depressing persons &c to debilitate is sufficiently ^p apparent, without further remark. — There is one cause which can scarcely be called either predisponent or exciting, but rather the means by which the ~~predisposing~~ ^{exciting} cause is sometimes enabled to act, early rising. — That early rising should be inimical to health, is a paradoxical assertion for which I am bound to give my reason. No one who has lived in our warm climate, but has witnessed the dense fogs of our autumnal months; these fogs, the products of the preceding days exhalation returned to the earth by the condensation of the evening and night, begin to rise at the approach of day charged with noxious miasma, that initiate and terrific source of fever. he then that keeps within doors, until the sun has dissipated the fog, certainly

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stands a much better chance of escaping the febrile poison than he who exposes himself to its influence by early rising. One hour later in the house in the morning - would prove a better prophylactic, than all the antipyretics that were ever gulped down in Virginia. Having thus shown how the predisposing causes - render the system liable to fever: In the next place, proceed to make some remarks on the exciting cause

Marsh Miasma

This subtle poison, this frightful parent of more diseases than sprung from the fabled box of Pandora, is perfectly inconspicuous to the senses, and is only known by its dreadful effects. The Chymist in vain attempts to detect its presence; the highest exertion of his noble art - resolves the atmosphere, loaded with its particles and the elastic air of the mountain, into the same constituent principles. Whether during the putrescent decomposition of vegetable and animal substances, or noxious gas is developed, the simple parent of the whole family

the first of the month of January
of the year 1800. I was
in the city of New York
and was very much
pleased to hear
that you were well
and happy. I hope
you will continue
to be so for many
years to come.

My dear Mother

I have just received
your letter of the 10th
inst. and was very
glad to hear from
you. I am well and
hope these few lines
will find you the same.
I have not much news
to write at present.
I am still in the city
and am very busy.
I hope to hear from
you again soon.

from
your
letter
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I hope
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family of fevers, or whether different specific contagions are produced = has given rise to much angry dispute in this country. — He who reads attentively the accounts of the endemic fevers of warm latitudes will probably assent to the first proposition; he will find the common bilious spuming, in some cases, the appearance of yellow fever, and during the prevalence of the last, cases of common intermittents, as the patient is either, from debility and previous derangement, prone to the worst form, or by his general good health only liable to the other, and this opinion may be supported by the following (at least) plausible arguments.

If as we are informed by Chymists, that an additional specific gravity ^p so small as not to be distinguished by the nicest test, will produce such a difference in the properties of the hydrocyanic acid, as to make the same dose in one instance a deadly poison and in the other a safe medicine, why may not the great chymical laboratory of nature, so act by

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by concentration or diffusion, the same morbid cause
 as to produce in the first place yellow and in the next
 bilious or intermittent fever? again, apply a plating
 of iron so far from the skin that only slight pain
 and partial, intumescence supervene, apply the same
 plate directly to the skin, how different will be the con-
 sequence, the cause evidently the same, It is my de-
 cided opinion therefore, that although the cha-
 racteristic phenomena of the fevers are different,
 it does not necessarily follow, that there should ex-
 ist specific differences in the exciting causes.

after all, it matters not in a practical point of
 view whether one or many specific causes produce
 the variations mentioned, the treatment will neces-
 sarily, be as different as the symptoms. I it shall
 now be my endeavour to point out: what those sym-
 ptoms are - which aggregated ~~constitute~~ ^{re-} ~~constitute~~
 intermittent as it commonly occurs.

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Symptoms of Bilious ~~Intermittent~~ ^{Re}mittent Fever.

After an exposure to the exciting cause, it commonly happens, that some premonitory signs warn the patient of approaching sickness, such as nausea in the morning, yellow & furrowed tongue, slight shivering alternated with flushes of heat, wandering pains, capitis, ore and giddiness. If timely precautions are now taken a regular attack of fever may be warded off, but unfortunately most persons either from an aversion to medicine or under the vain hope that their slight uneasiness may pass by, use no remedy, and on the second or third day they are seized with a regular bilious fever. These premonitory signs are, however, not always present and the attack supervenes upon the immediate application of the exciting cause.

The fever is ushered in by a cold stage, generally of short continuance & seldom amounting to rigor: or as sometimes happens the hot stage commences the attack; the patient now complains of great
pain

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pain in the back - and nausea - probably from the first accompanied by bilious vomiting, the pulse beats strong, hard, & quick; the surface is dry and hot, the urine scanty and red colored, the bowels costive, the tongue covered with white fur, while pain in the head especially over the eyes, is but a prelude to the suffering, that the next exacerbation brings, with it, a slight remission having occurred on the morning after the attack - the progress of the next day is characterized by an aggravation of every symptom.

On oppression about the praecordia is now complained of, accompanied by great restlessness and anxiety, the skin becomes exceedingly hot, the bowels remain obstinately costive, or dysenteric irritation distresses the patient, the mouth is dry and parched; the patient suffers with thirst, which he can in few instances quench, without producing great nausea probably vomiting, as the middest fluid taken into the stomach offends it. Between

and the most perfect manner in which it is
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2 and 3 o'clock P.M. the fever has reached its acme, the pulse at the wrist, now beats, quick, strong, hard, and bounding, while the patient in the occasioning agony that he suffers in his head. will tell you, that at every throes, it appears to be raised from the pillow. in severe cases delirium supervenes, the pupils of the eye become turged, and an intolerance ^{of light} evidences the patient's great distress. If delirium has not occurred you will find the patient very disponding. he is convinced, that his sickness is fatal, and it will require all the skill of the Physician, all the kindness & attention of his friends, to calm and compose his mind. This last symptom is an universal concomitant of every severe hepatic affection.

Should the remedies used fail to arrest the progress of the fever. this state of things cannot long continue, and after alternate remission and exacerbation - the remissions frequently so slight as scarcely to be perceived: about the 5.th or 6.th day the patient, worn out
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by violent reaction, sinks into a state of alarming debility — again the powers of life renew the struggle and on the day subsequent to the change, the increased volume and tension of the pulse are but the last indices of a power soon to be extinguished. The fever now reigns triumphant, delirium changes to stupor, the pulse flutters and becomes exceedingly rapid. the surface is still far above the natural standard, the gestures of the patient point out the disturb about the region of the stomach & liver, the bowels are still obstinately constipated or if discharges occur they are, black, green, and extremely fetid. The tongue is covered with a brown & thick crust, and in very bad cases the skin now becomes yellow, the annate of the eye is tinged of the same sepia hue and a cadaverous smell is exhaled from the body.

If amendment does not occur in a short period — in an only respect, those symptoms, the immediate precursors, of almost certain dissolution — subsist.

Cardiac

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tenderness & general twitching of the muscles prove that
 the function of the brain now yields, the stomach
 convulsively ejects its black and grumous con-
 tents, involuntary alvine discharges of a gelid
 nature occur — the capillary vessels having
 lost their energy eject their contents, and viti-
 ces & ptoeclia, purple & skin already yellow
 with absorbed and vitiated bile — cold — clammy —
 and profuse sweet bedews the forehead, the eye
 grows dim, and in a convulsive struggle death
 claims its miserable victim.

Happily, the case I have exhibited is an extreme
 one — In our country practice, under proper remedies
 we shall find the fever on the 5th or 6th day remit
entirely; and the remissions increasing in length, it may
 terminate in an intermittent. Or the change from the
 first to the second stage may not be accompanied
 by aggravation of bad symptoms & the Physician will
 in that case have only to contend with simple debility,

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such, indeed, is generally the case, in the country, but even under the foot of our mountains, we sometimes see Bilious remissions assume the most malignant forms (P.)

It will be found, by reviewing the symptoms, that the fever is, in its first stage, essentially inflammatory with topical determinations to the liver and head - and in proportion to the morbid excitement in the first, so will be the depression in the second stage. The indications of cure then are plain, to moderate excitement & relieve topical affection in the 1st and support excitement in the 2^d stage.

In the short limits of an inaugural essay, I hope it will not be expected at my hands, to enter into a minute investigation, of the multifarious remedies, that are calculated to fulfil either the one or the other indication, and in declining to do so, an ignorance of the antiphlogistic

P. In my own neighbourhood about 3 years back, a man died of bilious fever, but at the foot of the Blue Ridge, exhibiting such symptoms as would

a stimulating plan as laid down by authors will not, I trust, be imputed to me.

I shall therefore content myself by a few remarks, upon some of the most prominent remedies, and conclude this part of my subject by a general summary of such practice as I would institute if called upon to prescribe for a patient labouring under such a fever as I have described, for the Epidemic variation of bilious fevers is so numerous that a volume would scarcely suffice to enumerate their anomalous symptoms. it is then for to be understood that my remarks apply only to pure bilious fever. In the 10th place the of

Blood Letting

There is no remedy upon the use of which, more caution has been given, and more dread expressed than the use of the lancet in fever of any kind by European writers; and more especially, when they pretend to lay down rules for practice in our climate.

"Bonas

" *bonus medicus nunquam sanguinis humani
 "prodigus,"*—— is an aphorism of *Fordey* which
 has been supported by those whose wits have
 been clouded by a dread of their debility so often
 inculcated by Cullen and Brown, taking it for granted
 that their debility (and that too of low grade) must
 necessarily follow the excitement at the commencement
 of fever, a prejudice the above school has even adopted
 "that we must only moderate excitement by
 clearing the prime viæ = until typhus supervenes,
 & then treat the fever as such". what shall we think
 of such a doctrine? They say, indeed, what is
 in fact true; that fevers in hot climates terminate
 more rapidly than in cold = and that debility
 sooner supervenes = but if the debility is in consequence
 of violent reaction is not fever, (and I am satisfied it is the case in this) and is not
 to be considered as a positive feature of the disease;
 the practitioner will perceive how——

imperfectly

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imperatively, every means calculated to reduce action is demanded at the very onset of the complaint and more answer that purpose so well as blood-letting.

It not only relieves the head from the great determination to it, which always, without exception, occurs in this fever - but by relieving the congestion of the portal circle, exerts its most beneficial influence upon the very organ most affected - I am willing, however, to concede, that it is a remedy that must be used with discretion and at a proper time - the time is evidently during the 1st 2^d and perhaps the third exacerbation of the fever - and when used let a decided impression be made. more blood can be taken at the 1st than 2^d or 3^d exacerbation and at the 2^d than 3^d. by a decided impression - I mean that the abstraction should be in such amount as to relieve at the time the great pain in the head - a symptom by which we can best regulate the practice.

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if, however, instead of using the lancet thus, the
 Practitioner bleeds during the remission, I have very
 little doubt that in some cases even death might
 be the consequence - and is an evident injury.

Cold water

How far the practice of cold affusion or aspersion
 may be proper in fever of local determination (or
 to use a language I hardly comprehend) a fever
 which is not Idiopathic - is a question which has
 been agitated - Believing as I do that there exists no
 such thing as an Idiopathic fever, but that all have
 local determination or commencement, I have
 only to satisfy myself that there exists nothing in
 the peculiar nature of bilious fever, which would
 render the application of cold to the surface deci-
 dedly improper - to conclude - that as the practice
 has unquestionably been successful in other fevers
 it may be so in this - Now by the doctrine of
 cutaneous hepatic sympathy (as promulgated also by
 Johnson)

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Johnson) and to which I give my most hearty consent. it is proved that any agent acting on the skin produces a similar & asynchronous effect upon the capillaries of the Liver. and as we are agreed that the effects of cold aspersion during the exacerbation of fever, is to ameliorate the condition of the skin, by abstracting morbid heat - relaxing the constricted capillaries - and thereby inducing a diaphoresis - I conclude that a similar effect will be produced upon the liver - congestion will be relieved, a more healthy secretion of bile will follow of course - and its ultimate effect might even be a solution of the fever. I should therefore not hesitate to use the cold aspersion - a remedy, I am convinced, too seldom directed in this country.

Mercury

-Calomel is decidedly to the southern practitioners what Meade said of opium the 'Magnum Des Down!'

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but like most of the great benefits conferred on mankind,
 it has been abused; on this account alone I have
 thought proper to make some remark upon it in
 this place — Its peculiar action on the glandular system, and especially the liver, its singular property of moderating the inflammatory diathesis, renders it the appropriate remedy for many of the diseases of warm climates, — and above all for the fever under consideration; in fact, there is not in the whole range of the Materia Medica a remedy that can be substituted for it —

Let it not then ~~lose~~^{lose} the confidence of mankind (the learned Physicians will always know its value) by the atominable abuses, which have occurred in its use. When I hear of table-spoon-fuls of calomel, being given — I have little hesitation in saying, — that the patient is treated by one either totally ignorant or by an experimentalist — barbarously inhuman, who deserves the reprobation.

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of every medical man who regards the honor
of his profession.

Nitro-muriatic acid bath

I am led to believe from Do^r. Scott's account of
the Nitro-muriatic acid bath - that it would
prove a powerful adjunct in the cure of bilious
fever: used especially in those cases where mer-
cury cannot be used - its action on the system
is much like the last mentioned medicine,
and we are told by Do^r. Chapman⁽⁹⁾ that the
internal exhibition of it along with the bath
has been resorted to by him; exactly in those cases
where mercury was indicated, but which from
peculiar circumstances could not be given - and
always with decided advantage.

"The Nitro-muriatic acid bath (says Do^r. Scott)
appears in a particular manner, to affect the
glands, and to alter their secretion, and in this
power a great part of its value, in clearings
of

⁽⁹⁾ See his Therapeutics -

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"If the liver seems to depend, it increases the perspiration and opens the great extent." it is said also, by sympathetic action on the bowels to induce catharsis, - if such indeed are its properties, it surely has not met with sufficient attention.

Opium

The great discrepancy of opinion upon the use of opium, has left me, I confess, in a state of some indecision; I am rather inclined to believe, however, that in conjunction with the Tartro-antimonii & Calomel - it frequently produces diaphoresis - without increasing the distress, pain in the head - so constant a symptom in bilious fever; but when given alone as an anodyne in the first stage - I should rather apprehend evil than benificent results; and if any artificial means, other than a quiet and dark room, or mesmeric & procure sleep: I should prefer any of the other articles, of the same class - such as
Comin

Conium lig. osciamus = Klop. pulch. Hoffmann
and only a little than opium.

In the second stage = it answers better as a
anodyne = It is sometimes imperatively deman-
ded - taking good care at all times to obviate any
costiveness that might supervene on its use by lax-
atives = as an excitant - given with wine, or: other-
wise. &c. medical opinion is too decidedly in its fa-
vour for me positively to deny it merit, at the same
time I am inclined to believe = that its effects are
rather to place the living solids in such a state as
to render them less sensible to the action of the vitia-
ted fluids - and thus enable the wine not alkali-
&c. with which it is ~~conjoined~~, to produce their
robust effects. He, however, who like myself ~~frames~~
his opinion of a practical subject - from books -
rather than by a careful observation of the modern
operation of a medicine at the bedside, will be
liable to errors of judgment which he will candidly
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acknowledge if they prove unsound in application.
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Bark

Bark, the specific remedy of intermittents, is not, I apprehend so useful as a preventative & relief in this form of fever; — the gastric irritability so constant an attendant on bilious fever, renders it almost impossible for the patient to retain any preparation of the article on his stomach, and when retained, it induces during convalescence a febricula, calculated rather to retard than hasten recovery. — I would therefore substitute in its place the Colombo — the preparations of Iron and the mineral acids, of the last, muriatic acid is to be preferred, — on account of its particular action on the liver.

Having thus offered my opinion upon the principal articles used in the cure of bilious fever, I conclude the subject, by a short summary of the practice I consider the most advisable in the treatment
Y —

of this distressing complaint.

It called to the patient either on the 1st 2nd or 3rd day - use the lancet at the height of the exacerbation, unless a decided impression is made, how far it may be proper to repeat it - must be left to the judgment of the practitioner - if the fever is Epidemic, the nature of the prevailing symptoms must be his guide, if no epidemic irregularities alter the nature of the fever & the first bleeding has not produced the effects anticipated - bleed again - if the pain in the head still continues violent, resort to leeches bleeding with leeches or cups & apply cold water or sea water to the head - with cold effusion on if the heat of the surface is above the natural standard. If vomiting is present, a first nature in the first place by copious draughts of warm water or chamomile tea, & then use a carminative - the effervescent draught, or any appropriate remedy -

The following are the names of the
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 The names of the persons
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remedy to quiet gastric Irritability - Calomel
 will sometimes ~~produce~~ produce this desirable effect
 when all other means fail - at the first, in
 conjunction with the bleeding - let calomel be used
 as a purge, in large dose, followed by sleep on the
 left: to do a mag. let the quantity of medicine
 given be such as to produce copious catharsis, & then
 resort to calomel in combination with tartar em-
 etic, and if the practitioner thinks proper with
 a small portion of opium - for the purpose of pro-
 ducing a specific action on the liver & skin -
 if however, danger is apprehended from the first
 after having premises bleeding - place your dependence
 on the calomel so used as to produce its specific
 effect. it will seldom be found in any case of in-
 flamm^{tion}, however aggravated - that it will not yield
 to mercury thus employed. # After all, a
 resolution of the fever does not take place - you
 are to be guided in the second stage in the use
 of -

- blisters are now to be used -

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of the stimulents by the state of the symptoms. If
 coma exist, - shave and blister the head - cold cloths,
 however, will, after the head has been shaved, some-
 times produce relief - sleep must now be obtained by
 opium, & at the same time than you use the col. alk:
 wine &c &c. do not neglect to open the bowels, by lax-
 atives, - use at this period the warm pediculation
 of Nitro-muriatic acid - & now watching every symp-
 tom that arrives, - aim your endeavours to remove
 or neutralize it - for every inch the disease now
 obtains the practitioner loses an ell; Nature
yields when the disease changes from the first
 to the second stage. & the battle is now emphat-
 ically between death & the Doctor. & it must
 be fought with obstinate pertinacity, and if
 we must yield let it be by inches - the conclu-
 sion - should the Doctor prove victorious, his
 remaining care is to prevent relapse, for
 which purpose - he is to direct a properly regulated
 diet -

dist. consisting of such articles as are easy of digestion at the same time that they are nourishing in small bulk - with the due administration of tonics - as - Colombr's. the preparations of Iron, the muciae acida - & with a regular exercise - carefully commenced & properly persevered in till perfect recovery ensues.

After having perused the pages of my essay I have set down to myself for its imperfection = but why should I do so?

"Juvenis arcum flectere tentat Ulysses"
and if I have failed = I am well assured that those who will have the perusal of my writings will not expect perfection from a Lyceum! I offer it, therefore, with all its imperfections "on its head" merely as a sort of prima facie evidence of some attention to my studies, and if it is accepted as such, I have gained all I could propose to myself in its composition.

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173

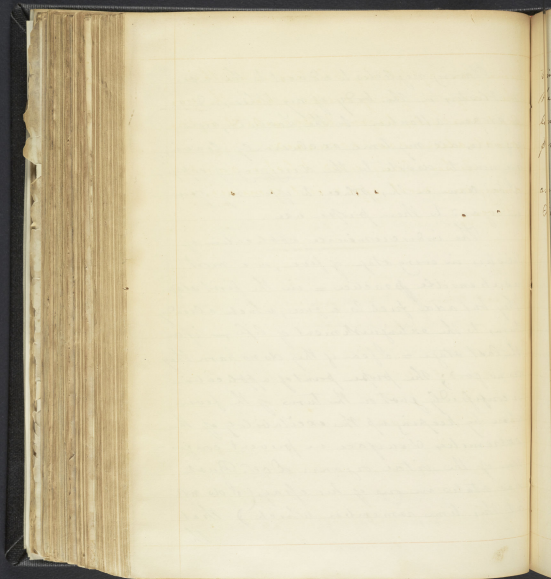
The first of these is the fact that the
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Having neglected to advert to the use
of blisters in the body of my Thesis - & as
a proper attention to the Lectures, now
requires all my time exclusively leaving
me none to devote to the dressing of copies,
I beg leave in this place to offer my opinion
in regard to their proper use.

The indiscriminate application of
blisters in every stage of fever, is a most
reprehensible practice = in the first stage
they but add fuel to a fire, which already
burns to the extinguishment of life - if in
the last stage = I fear if they do no harm they
do no good; the proper point of application
is confessedly just on the turn of the fever
when by keeping up the excitability of the
extremities & surface we prevent congest-
ion of the vital organs: Doct. Rush
has stated in one of his essays (I do not
at this time remember which) that
the



time for applying blisters is within
the range of forty hours, when the voi-
lent reaction begins to subside & before
prostration has occurred.

When thus used blisters rank
among our most efficient remedies, in
Fever.

